New York State Severe Weather Awareness Week April 26th to May 2nd, 2015

Tornadoes

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Severe Weather Awareness Week 2015 Tornado

- What is a tornado?
- What is the average number tornadoes per year per state?
- What is the life cycle of a tornado?
- What is the Enhanced Fujita Scale?
- Tornado Tracks
- Damage from local tornadoes
- Tornado Safety

A tornado is a violently rotating column of air attached to a thunderstorm base and is in contact with the ground

- Tornadoes typically form from organized thunderstorms called supercells
- However, tornadoes can form within a line of storms.
- Tornadoes usually follow after the development of a wall cloud.
- A visible (condensation) funnel does not have to touch the ground to be a tornado.

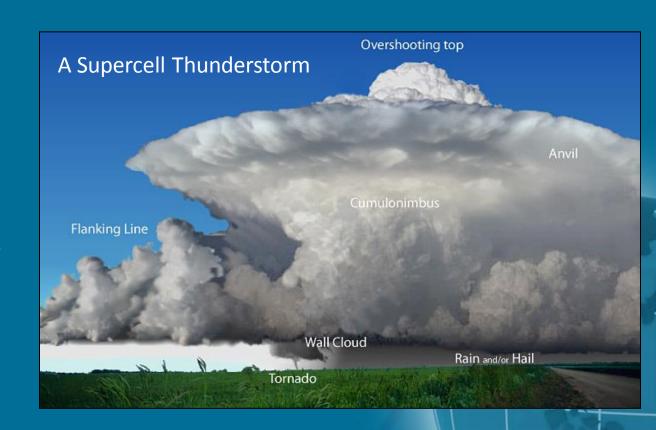


Photo: Andrew Arnold





Tornado

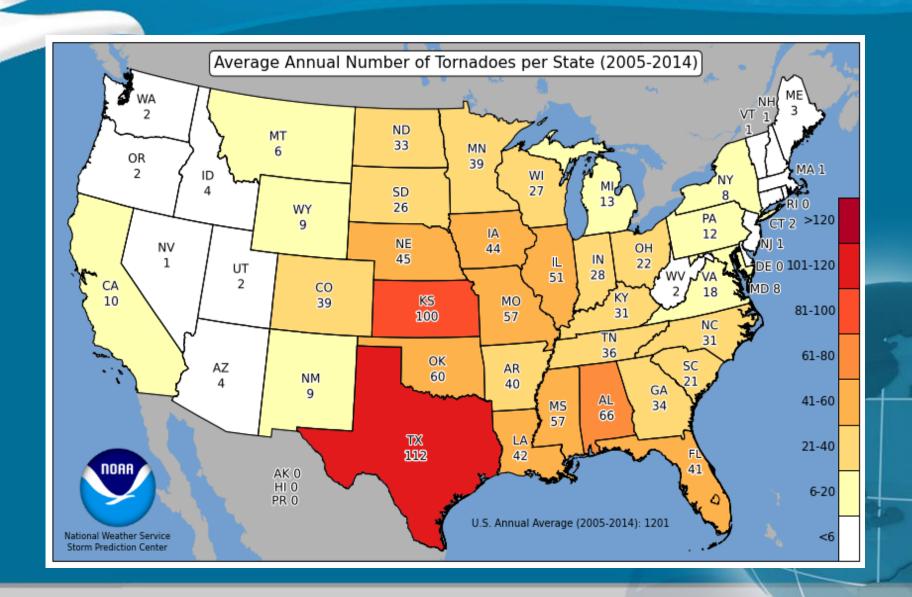
Tornadoes come in all shapes and sizes.

Tornadoes form all over the country and all times of the year.

Tornadoes can cause billions of dollars in damages.

All tornadoes large and small can be deadly if one does not take proper safety precautions.





There are 3 stages in a tornado's life.

Stage 1 Developing Stage

- A wall cloud forms
- Rotations increases
- A RFD (Read Flank
 Downdraft) develops
 (the lower clouds clear out)

Stage 2 Mature

- This is when the tornado is the strongest
- A funnel is most likely visible
- The RFD continues (a horseshoe-shaped clearing)

Stage 3 Dissipation

- The inflow to the storm is cut off
- The tornado shrinks and tilts
- Eventually dissipates





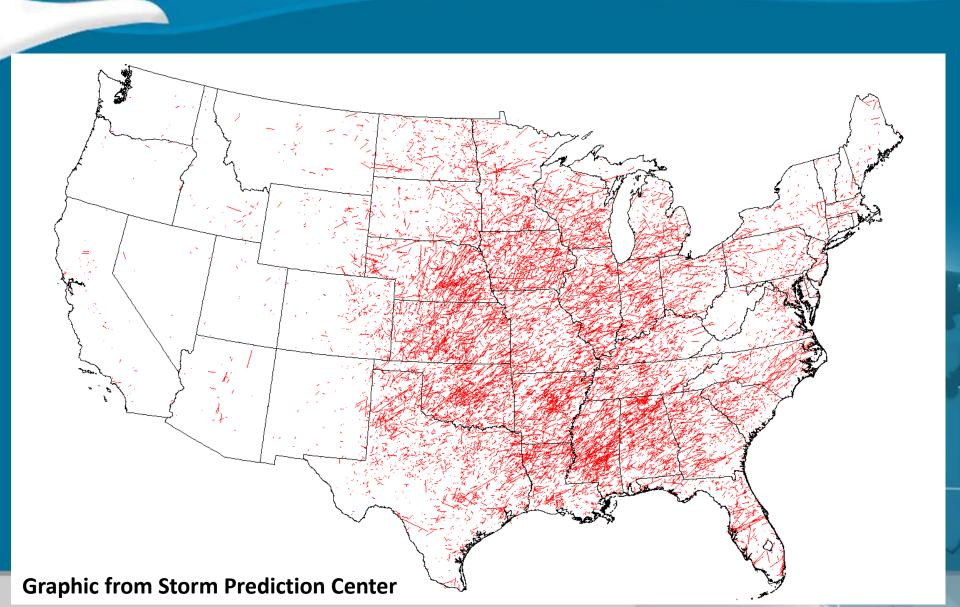


The Enhanced Fujita Scale

Tornadoes are classified by the intensity of damage it creates to objects.

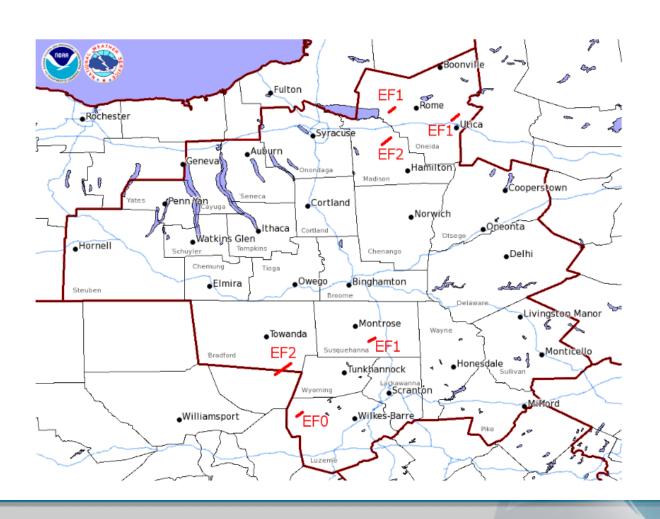
<u>Scale</u>	<u>MPH</u>	Expected Damage
EFO	65-85	Light
EF1	86 -109	Moderate
EF2	110-137	Considerable
EF3	138-167	Severe
EF4	168-199	Devastating
EF5	200-234	Incredible

Tornado tracks 1950-2014



Outbreak from 2014

Tornado tracks – July 8, 2014



NY and PA Tornadoes

Tornadoes can tear homes apart and cause fatalities.

Damage from an EF1 and EF2 tornado in 2014









Tornado Safety

Practice, Practice a tornado drill!!!!

Take Cover!!



First choice: Basement!

Find an area of sturdy protection. Cover yourself with a sleeping bag or mattress.

Second choice: Lowest floor, center room.

Find a small room, away from windows, usually a bathroom/closet. Crouch as low as possible to the floor. Face downward cover your head with your hands.

If you are in a mobile home... *GET OUT!* These are not safe. Have a plan!!!

Outside...

In a car:

Seek shelter in a sturdy building. DO NOT hide under an overpass.

Open Outdoors:

Lie flat and face down on the ground. Protect the back of you head with your arms. Get as far away from trees and cars as you can.





WATCH vs. WARNING

CAUTION

Watch the Sky

DANGER

Take Cover Now

Watch- "Stand-by"

Conditions are favorable for severe weather in or near the watch area. Watches are issued for tornadoes, severe thunderstorms and flash floods. Issued by the Storm Prediction Center

Warning- "Activated"

The severe weather event is imminent or occurring in the warned area. Warnings are issued for tornadoes, severe thunderstorms, flash floods and river flooding. Issued by NWS Binghamton for central New York and northeast Pennsylvania.